



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NO.       | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------|-------------|----------------------|---------------------|------------------|
| 10/748,603            | 12/29/2003  | Richard Doil Lane    | 030068              | 8659             |
| 23696                 | 7590        | 07/21/2008           | EXAMINER            |                  |
| QUALCOMM INCORPORATED |             |                      | NGUYEN, TU X        |                  |
| 5775 MOREHOUSE DR.    |             |                      |                     |                  |
| SAN DIEGO, CA 92121   |             |                      | ART UNIT            | PAPER NUMBER     |
|                       |             |                      | 2618                |                  |
|                       |             |                      | NOTIFICATION DATE   | DELIVERY MODE    |
|                       |             |                      | 07/21/2008          | ELECTRONIC       |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

us-docketing@qualcomm.com  
kascanla@qualcomm.com  
nanm@qualcomm.com

|                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                              | 10/748,603             | LANE ET AL.         |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                              | TU X. NGUYEN           | 2618                |  |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 04 June 2008.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1,3-7,10-19,21-23,25-27,29-32,34,36-41 and 43-53 is/are pending in the application.  
 4a) Of the above claim(s) 2,8,9,20,24,28,33,35 and 42 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1,3-7,10-19,21-23,25-27,29-32,34,36-41 and 43-53 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 12/29/03 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

|  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____.   | 6) <input type="checkbox"/> Other: _____ .                        |

## DETAILED ACTION

Claims 2, 8-9, 20, 24, 28, 33, 35 and 42 have been cancelled.

### ***Response to Amendment***

Applicant's arguments filed 6/4/08 have been fully considered but they are not persuasive.

In response to Applicant argue Kim does not teach a separate wireless principle for the traffic and control channels, the Examiner disagrees, Kim disclose a satellite broadcast system using a OFDM (par.035) and a bidirectional link by means of TDMA (par.053, SSCH channels can be mapped in TDMA) are different principles.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7, 10-11, 13-19, 21-23, 25-27, 29-32, 34, 36-41, 43, 45-50, are rejected under 35 U.S.C. 102(e) as being anticipated over Kim (US Pub. 2003/0078061).

Regarding claims 1 and 47, Kim discloses a communication system, comprising:

at least a broadcast center wirelessly broadcasting at least one multimedia stream (see abstract, par.034, “broadcasting data” corresponds to “multimedia stream”); and at least one wireless receiver receiving the stream over a wireless broadcast link, wherein the broadcast link is characterized by a first wireless principle; and (see par.0033, “uni-directional downlink channel” corresponds to broadcast link), a second receiver being provided with control data associated with the multimedia stream over a bidirectional wireless link (see par.0033, “broadcasting traffic” corresponds to “multimedia stream”, “bi-directional channel SSCH” corresponds to “bidirectional link”), wherein the bidirectional wireless link is characterized by a second wireless principle and wherein the wireless broadcast link and the bidirectional wireless link are separate (see par.0033), wherein services are ordered over the bidirectional link (see par. 033,055) and the first and second wireless principles are different from each other (see par.035, 053, the common traffic channel is satellite OFDM transmission, the secure channel is TDMA).

Regarding claims 3, 22 and 36, Kim discloses the broadcast link is unidirectional (see par.0033) and wherein the first wireless principle is selected from the group consisting of: OFDM principles (see par.0035), CDMA, GSM, WCDMA, TDMA and TD-SCDMA principle.

Regarding claims 4, 23 and 37, Kim discloses **the second wireless principle is selected from the group consisting of a CDMA link, a GSM link (see par.053, GSM network support TDMA), a 802.11 link, a satellite link, and a Bluetooth link.**

Regarding claims 5 and 38, Kim discloses the bidirectional wireless link is a point-to-point wireless communication link (see par.0033).

Regarding claim 6, Kim discloses the first wireless receiver and the second receiver are associated with receiver is a mobile communication device having at least one display for displaying the multimedia data (see par.019).

Regarding claims 7 and 25, Kim discloses the first wireless receiver and the second receiver are associated with at least one speaker for presentation of multimedia audio data (see element 124, fig.4).

Regarding claim 10, Kim discloses products are ordered over the bidirectional link (see par.019, “video signal” reads on “product”).

Regarding claims 11, 30, 43 and 48, Kim discloses least one digital broadcast multimedia (DBM) controller useful at least for encrypting, encoding and/or aggregating the multimedia stream (see par.0035-036, 0046, “controller” is inherently included in the system).

Regarding claims 13, 32 and 45, Kim discloses control data includes data useful for indexing into the multimedia stream for channel selection and tracking (see par.0046).

Regarding claim 14, Kim discloses at least one network control center communicating with the DBM controller at least for receiving keys therefrom, the network control center communicating with second receiver over the bidirectional wireless link (see par.0034, 0038).

Regarding claims 15 and 41, Kim discloses at least one NCC controller associated with the network control center at least for providing to receivers applications related to playing multimedia streams (see par.0035).

Regarding claim 16, Kim discloses at least one network operations controller (NOC) associated with the broadcast network operations center at least for providing to receivers applications related to playing multimedia streams through a bidirectional wireless link (see par.0035, 0037-0038).

Regarding claims 17, 34 and 47, Kim discloses a method for providing a multimedia stream to a wireless communication device, comprising: ordering a least one of: services, and products, over a bidirectional wireless link; broadcasting the multimedia stream over a wireless broadcast channel; and transmitting over the bidirectional wireless link, control data necessary for displaying the multimedia stream on the device (see par.033, 055) and the first and second wireless principles are different from each other (see par.035, 053, the common traffic channel is satellite OFDM transmission, the secure channel is TDMA).

Regarding claims 18-19, Kim discloses at least some control data is transmitted/received to the wireless device (see par.033).

Regarding claim 21, Kim dislcoses the broadcast link is unidirectional (see par.033).

Regarding claims 26, 39 and 40, Kim discloses the control data includes at least one of: at least one key useful in decrypting the multimedia stream (see par.0042), data associated with a subscription to a multimedia broadcast service (see par.0037), data associated with a registration on a multimedia broadcast network, at least one application useful in decoding the multimedia data, billing information, data related to user preferences, and data related to levels of service related to providing the multimedia stream.

Regarding claim 27, Kim discloses the control data includes data associated with a subscription to a multimedia broadcast service (see par.0035).

Regarding claim 29, Kim discloses the control data includes data related to levels of service related to providing the multimedia stream (see par.009).

Regarding claim 46, Kim discloses at least one of services, and products, can be ordered over the bidirectional link (see par.033, protocol agreement).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12, 31 and 44, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim in view of McGarrahan et al. and further in view of McClellan (US Pub. 2004/008794).

Regarding claims 12, 31 and 44, Kim discloses decompressing (see par.007). However Kim fails to disclose de-interleaving and decoding the multimedia stream.

McClellan discloses de-interleaving and decoding the multimedia stream (see par.0052, 0054). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kim with the above teaching of McClellan in order to provide advantage for the processing modules may operate at a lower speed, or may operate at the highest speed possible and operate in parallel to achieve higher overall transceiver operation.

Claims 29, 51-53, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim.

Regarding claims 29, 51-53, Kim discloses control data associated with at least one key useful in decrypting the multimedia stream (see abstract), application useful in decoding the multimedia data (see par.044). However, Kim fails to include billing information, data related to user preferences, data associated with a registration on a multimedia broadcast network, and data related to levels of service related to providing the multimedia stream. The examiner takes an official notice the concept that the control signal provides one of variety information are well known in the art, it would have obvious the control signals which provide useful information to the user whereat the information may be billing information, level of services, etc.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tu X Nguyen/

Patent Examiner, Art Unit 2618

7/14/08